

## Supply Covers

# KN



### Description

The KNI air supply valve is designed for mounting on ceilings, walls or directly on ducts with use of the special assembly frame RM. The KNI valve has a continuous adjustment of inlet air by rotating central disc. Selected slot can be fixed by means of a fixing nut. Special construction of the valve ensures a low level of noise as well as easy and fast assembly.

**Material:** steel sheet  
**Furnishing:** furnace enamelling  
**Standard colour:** white

#### Example identification

Product code: KN - aaa

type \_\_\_\_\_  
 Ød \_\_\_\_\_

\* as standard complete with mounting frame

### Technical Data

#### Parameters

Volumetric flow  $q$  (l/s or  $m^3/h.$ ), total pressure loss  $P_t$  (Pa) and acoustic pressure level  $L_A$  (dB(A)) for various cone settings can be read from the figure.

#### Pressure losses $P_t$

The figures show total pressure loss  $P_t$  (Pa).

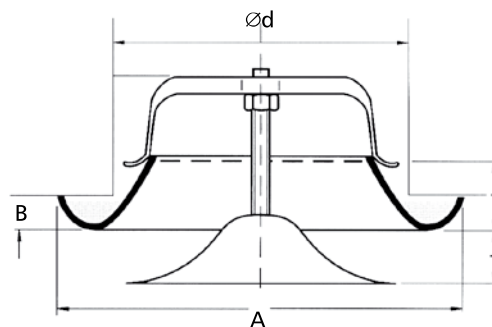
#### Acoustic pressure level, $L_A$

The figure shows acoustic pressure level  $L_A$  (dB(A)). The noise level is specified for a room attenuation of 4dB, which translates into attenuation in the reverberation zone of the SABINE room with an acoustic absorption of  $10 m^2$

#### Control

Details of how to control volumetric flow are to be found in the instructions for use.

### Dimensions



| Ød<br>nom [mm] | A<br>[mm] | B<br>[mm] | weight<br>[kg] |
|----------------|-----------|-----------|----------------|
| 80             | 115       | 12        | 0,15           |
| 100            | 137       | 12        | 0,19           |
| 125            | 164       | 12        | 0,31           |
| 150            | 202       | 12        | 0,35           |
| 160            | 212       | 12        | 0,47           |
| 200            | 248       | 12        | 0,66           |
| 250            | 302       | 12        | 0,88           |

#### Acoustic pressure level $L_A$ (dB(A))

| dimension<br>[mm] | average frequency (Hz) |     |     |      |      |      |      |
|-------------------|------------------------|-----|-----|------|------|------|------|
|                   | 125                    | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 80                | 6                      | 3   | 2   | 1    | -4   | -16  | -20  |
| 100               | 4                      | 3   | 2   | 0    | -7   | -15  | -30  |
| 125               | 2                      | 7   | 3   | -2   | -10  | -20  | -32  |
| 160               | 5                      | 7   | 3   | -2   | -10  | -19  | -32  |
| 200               | 8                      | 6   | 4   | -3   | -10  | -19  | -32  |
| 250               | 9                      | 8   | 6   | -4   | -12  | -20  | -33  |
| tolerance         | 3                      | 2   | 2   | 2    | 2    | 2    | 3    |

#### Sound attenuation (dB)

| dimension<br>[mm] | average frequency (Hz) |     |     |     |      |      |      |      |
|-------------------|------------------------|-----|-----|-----|------|------|------|------|
|                   | 63                     | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 80                | 22                     | 19  | 14  | 11  | 2    | 3    | 7    | 8    |
| 100               | 22                     | 16  | 11  | 8   | 6    | 6    | 3    | 6    |
| 125               | 20                     | 15  | 9   | 6   | 4    | 3    | 3    | 5    |
| 160               | 18                     | 13  | 8   | 5   | 4    | 4    | 5    | 6    |
| 200               | 17                     | 11  | 7   | 6   | 6    | 5    | 6    | 6    |
| 250               | 18                     | 12  | 9   | 7   | 7    | 6    | 7    | 5    |
| tolerance         | 6                      | 3   | 2   | 2   | 2    | 2    | 2    | 3    |



**Description**

The KW outlet valve is designed for mounting on ceilings, walls or directly on ducts with use of the special assembly frame RM. The KW valve has a continuous adjustment of exhausted air by rotating central disc. Selected slot can be fixed by means of a fixing nut. Special construction of the valve ensures a low level of noise as well as easy and fast assembly.

**Material:** steel sheet  
**Furnishing:** furnace enamelling  
**Standard colour:** white

**Example identification**

Product code: **KW - aaa**

type   
 Ød

\* as standard complete with mounting frame

**Technical Data**

**Parameters**

Volumetric flow  $q$  (l/s or  $m^3/h$ ), total pressure loss  $P_t$  (Pa), and acoustic pressure level  $L_A$  (dB(A)), can be read from the figure.

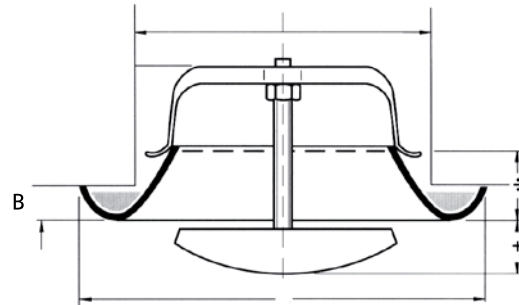
**Pressure losses  $P_t$**

The figures show total pressure loss  $P_t$  (Pa).

**Acoustic pressure level,  $L_A$**

The figure shows acoustic pressure level  $L_A$  (dB(A)). The noise level is specified for a room attenuation of 4dB, which translates into attenuation in the reverberation zone of the SABINE room with an acoustic absorption of 10  $m^2$ .

**Dimensions**



Ød = dent/internal diameter of the duct

| Ød<br>nom [mm] | A<br>[mm] | B<br>[mm] | weight<br>[kg] |
|----------------|-----------|-----------|----------------|
| 80             | 115       | 12        | 0,1            |
| 100            | 137       | 12        | 0,2            |
| 125            | 164       | 12        | 0,3            |
| 150            | 202       | 12        | 0,3            |
| 160            | 212       | 12        | 0,5            |
| 200            | 248       | 12        | 0,7            |
| 250            | 302       | 12        | 0,9            |

**Acoustic pressure level,  $L_A$  (dB(A))**

| dimension<br>[mm] | average frequency (Hz) |     |     |      |      |      |      |
|-------------------|------------------------|-----|-----|------|------|------|------|
|                   | 125                    | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 80                | -2                     | -6  | -5  | 1    | -1   | -5   | -14  |
| 100               | -2                     | -4  | -3  | 0    | -1   | -8   | -16  |
| 125               | 4                      | 3   | 1   | -1   | -3   | -12  | -22  |
| 160               | -1                     | 0   | 1   | 0    | -4   | -13  | -26  |
| 200               | 0                      | -5  | 1   | 2    | -13  | -28  | -32  |
| 250               | 1                      | -7  | 2   | 3    | -15  | -29  | -33  |
| tolerance         | 3                      | 2   | 2   | 2    | 2    | 2    | 3    |

**Sound attenuation (dB)**

| dimension<br>[mm] | average frequency (Hz) |     |     |     |      |      |      |      |
|-------------------|------------------------|-----|-----|-----|------|------|------|------|
|                   | 63                     | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| 80                | 24                     | 18  | 14  | 9   | 7    | 7    | 7    | 9    |
| 100               | 22                     | 16  | 11  | 7   | 5    | 5    | 5    | 7    |
| 125               | 21                     | 14  | 9   | 7   | 4    | 4    | 6    | 8    |
| 160               | 14                     | 13  | 8   | 5   | 4    | 4    | 7    | 7    |
| 200               | 17                     | 10  | 6   | 4   | 3    | 4    | 8    | 4    |
| 250               | 15                     | 8   | 5   | 3   | 2    | 3    | 6    | 5    |
| tolerance         | 6                      | 3   | 2   | 2   | 2    | 2    | 2    | 3    |